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# AUTOMATIC TRANSMISSION /TRANSAXLE EXTERNAL CONTROLS - VEHICLES WITH: 8HP45 8-SPEED AUTOMATIC TRANSMISSION AWD

DIAGNOSIS AND TESTING

## PRINCIPLES OF OPERATION

For a detailed description of the automatic transmission/transaxle external controls system and operation, refer to the relevant Description and Operation section of the workshop manual. REFER to: External Controls (307-05C, Description and Operation).

## INSPECTION AND VERIFICATION

**CAUTION:**

Diagnosis by substitution from a donor vehicle is **NOT** acceptable. Substitution of control modules does not guarantee confirmation of a fault, and may also cause additional faults in the vehicle being tested and/or the donor vehicle.

**NOTE:**

If the control module or a component is suspect and the vehicle remains under manufacturer warranty, refer to the Warranty Policy and Procedures manual (section B1.2), or determine if any prior approval programme is in operation, prior to the installation of a new module/component.

1. Verify the customer concern.

1. Visually inspect for obvious signs of mechanical or electrical damage.

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### Visual Inspection

| MECHANICAL | ELECTRICAL |
| --- | --- |
| ▪ Check for stuck/jammed switches and buttons<br>▪ Visibly damaged or worn components<br>▪ Transmission Control Switch (TCS) | ▪ Fuse(s)<br>▪ Loose or corroded electrical connector(s)<br>▪ Transmission Control Switch (TCS)<br>▪ Controller Area Network (CAN) |

1. If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step.

1. If the cause is not visually evident, check for Diagnostic Trouble Codes (DTCs) and refer to the DTC Index.

## DTC INDEX

For a list of Diagnostic Trouble Codes (DTCs) that could be logged on this vehicle, please refer to Section 100-00. REFER to: Diagnostic Trouble Code Index: Transmission Control Switch (100-00, Description and Operation).

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